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\*Admitted only in Maryland  
\*Admitted only in Virginia  
\*Practice limited to  
Federal Agencies

January 19, 2005

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Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**Mail Stop Amendment**

Re: U.S. Utility Patent Application  
Application No. 10/822,855; Filed: April 13, 2004  
For: **Gap Seal Between Nozzle Components**  
Inventors: **Babin et al.**  
Our Ref: 2107.1780002

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement;
2. Seven pages of Form PTO-1449 listing 162 documents;
3. Copies of documents FA4-FW4, FA5-FU5, OA5-OB5, OA6-OI6 and OA7-OD7 as listed on Form PTO-1449; and
4. Return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

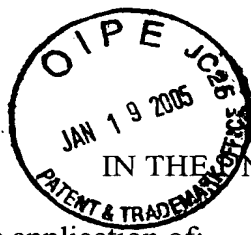
Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Rae Lynn P. Guest  
Attorney for Applicants  
Registration No. 53,482

TUM/RPG/dbj  
Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Babin *et al.*

Appl. No.: 10/822,855

Filed: April 13, 2004

For: **Gap Seal Between Nozzle  
Components**

Confirmation No.: 2655

Art Unit: 1722

Examiner: *To be assigned*

Atty. Docket: 2107.1780002

### Information Disclosure Statement

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- ☒ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- ☐ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.

- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ c. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$\_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$\_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.
- ☒ 6. A concise explanation of the relevance of the non-English language document(s) in accordance with 37 C.F.R. § 1.98(a)(3) is provided by the full translation or translated abstract submitted therewith.

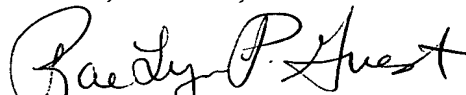
- ☒ 7. Copies of documents FA4-FW4, FA5-FU5, OA5-OB5, OA6-AI6 and OA7-OD7 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited on the attached Form PTO-1449 are submitted.
- ☐ 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. \_\_\_\_\_, filed \_\_\_\_\_, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
- ☒ 9. It is expected that the examiner will review the prosecution and cited art in the parent application no(s). 10/261,660 in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

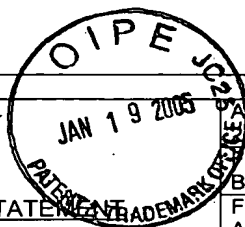
A handwritten signature in black ink, appearing to read "Rae Lynn P. Guest", with a stylized flourish at the end.

Rae Lynn P. Guest  
Attorney for Applicants  
Registration No. 53,482

Date: January 19, 2005

1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
107.1780002/TUM/RPG  
FIRST NAMED INVENTOR  
Babin *et al.*  
FILING DATE  
April 13, 2004

APPLICATION NO.  
10/822,855

ART UNIT  
1722

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA1	2,865,050	12-23-1958	Strauss			
	AB1	3,488,810	01-13-1970	Gellert			
	AC1	3,677,682	07/18/1972	Putkowski			
	AD1	3,716,318	02-13-1973	Erik et al.			
	AE1	3,741,704	06-26-1973	Beasley			
	AF1	3,952,927	04-27-1976	Schaumburg et al.			
	AG1	4,004,871	01-25-1977	Hardy			
	AH1	4,013,393	03/22/1977	Gellert			
	AI1	4,043,740	08/23/1977	Gellert			
	AJ1	4,053,271	10/11/1977	Gellert			
	AK1	4,173,448	11/06/1979	Rees et al.			
	AL1	4,268,240	05/19/1981	Rees et al.			
	AM1	4,268,241	05/19/1981	Rees et al.			
	AN1	4,279,588	07/21/1981	Gellert			
	AO1	4,286,941	09/01/1981	Gellert			
	AP1	4,306,852	12/22/1981	Mateev et al.			
	AQ1	4,312,630	01/26/1982	Travaglini			
	AR1	4,517,453	05/14/1985	Tsutsumi			
	AS1	4,652,230	03/24/1987	Osuna-Diaz			
	AT1	4,662,837	05/05/1987	Anderson			
	AU1	4,771,164	09/13/1988	Gellert			
	AV1	4,781,572	11/01/1988	Boring			
	AW1	4,787,836	11/29/1988	Osuna-Diaz et al.			
	AX1	4,911,636	03/27/1990	Gellert			
	AY1	4,945,630	08/07/1990	Gellert			
	AZ1	4,950,154	08/21/1990	Moberg			
	BA1	4,954,072	09/04/1990	Zimmerman			
	BB1	5,028,227	07/02/1991	Gellert et al.			
	BC1	5,030,084	07/09/1991	Gellert et al.			
	BD1	5,053,271	10/01/1991	Mori et al.			
	BE1	5,141,696	08/25/1991	Osuna-Diaz			
	BF1	5,208,052	05/04/1993	Schmidt et al.			

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2107.1780002/TUM/RPG	APPLICATION NO. 10/822,855
	FIRST NAMED INVENTOR Babin <i>et al.</i>	
	FILING DATE April 13, 2004	ART UNIT 1722

	AA2	5,268,184	12/07/1993	Gellert			
	AB2	5,269,677	12/14/1993	Gauler			
	AC2	5,299,928	04/05/1994	Gellert			
	AD2	5,324,191	05/28/1994	Schmidt			
	AE2	5,334,008	08-02-1994	Gellert			
	AF2	5,360,333	11/01/1994	Schmidt			
	AG2	5,374,182	12/20/1994	Gessner			
	AH2	5,421,716	06/06/1995	Gellert			
	AI2	5,443,381	08//221995	Gellert			
	AJ2	5,474,439	12/12/1995	McGrevy			
	AK2	5,492,467	02/20/1996	Hume et al.			
	AL2	5,505,613	04/09/1996	Krummenacher			
	AM2	5,545,028	08/13/1996	Hume et al.			
	AN2	5,554,395	09/10/1996	Hume et al.			
	AO2	5,569,475	10/29/1996	Adas et al.			
	AP2	5,658,604	08/19/1997	Gellert et al.			
	AQ2	5,674,439	10/07/1997	Hume et al.			
	AR2	5,695,793	12-09-1997	Bauer			
	AS2	5,700,499	12-23-1997	Bauer			
	AT2	5,736,171	04/07/1998	McGrevy			
	AU2	5,795,599	08/18/1998	Gellert			
	AV2	5,804,228	09/08/1998	Kofsman et al.			
	AW2	5,811,140	09/22/1998	Manner			
	AX2	5,820,899	10/13/1998	Gellert et al.			
	AY2	5,834,041	11-10-1998	Sekine et al.			
	AZ2	5,849,343	12-15-1998	Gellert et al.			
	BA2	5,871,786	02/16/1999	Hume et al.			
	BB2	5,879,727	03/09/1999	Puri			
	BC2	5,885,628	03/23/1999	Swenson et al.			
	BD2	5,894,025	04/13/1999	Lee et al.			
	BE2	5,895,669	04-20-1999	Seres, Jr. et al.			
	BF2	5,925,386	07/20/1999	Moberg			
	BG2	5,948,450	09/07/1999	Swenson et al.			
	BH2	5,980,234	11/09/1999	Harley			

EXAMINER

DATE CONSIDERED

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FORM PTO-1449  <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 2107.1780002/TUM/RPG	APPLICATION NO. 10/822,855
	FIRST NAMED INVENTOR Babin <i>et al.</i>	
	FILING DATE April 13, 2004	ART UNIT 1722

	AA3	5,980,237	11/09/1999	Swenson et al.			
	AB3	6,022,210	02/08/2000	Gunther			
	AC3	6,030,202	02/29/2000	Gellert et al.			
	AD3	6,050,806	04/18/2000	Ko			
	AE3	6,074,195	06/13/2000	Belous			
	AF3	6,089,468	07-18-2000	Bouti			
	AG3	6,143,358	11/07/2000	Singh et al.			
	AH3	6,164,954	12/26/2000	Mortazavi et al.			
	AI3	6,220,851 B1	04/24/2001	Jenko			
	AJ3	6,227,461 B1	05/08/2001	Schroeder et al.			
	AK3	6,245,278 B1	06/12/2001	Lausenhammer et al.			
	AL3	6,254,377 B1	07/03/2001	Kazmer et al.			
	AM3	6,261,084 B1	07/17/2001	Schmidt			
	AN3	6,264,460 B1	07/24/2001	Wright et al.			
	AO3	6,273,706	08/14/2001	Gunther			
	AP3	6,287,107 B1	09/11/2001	Kazmer et al.			
	AQ3	6,309,208 B1	10/30/2001	Kazmer et al.			
	AR3	6,315,549 B1	11/13/2001	Jenko et al.			
	AS3	6,331,106	12/18/2001	Helldin			
	AT3	6,358,038 B1	03/19/2002	Rozenberg			
	AU3	6,358,039	03/19/2002	Manner et al.			
	AV3	6,394,785 B1	05/28/2002	Ciccone			
	AW3	6,419,116 B1	07/16/2002	Eigler et al.			
	AX3	6,428,305 B2	08/06/2002	Jenko			
	AY3	6,533,571 B2	03/18/2003	Fikani			
	AZ3	6,609,902 B1	08/26/2003	Blais et al.			
	BA3	6,726,467 B1	04/27/2004	Lefebure			
	BB3	6,709,262 B2	03/23/2004	Fong			
	BC3	6,769,901 B2	08/03/2004	Babin et al.			
	BD3	6,821,112 B2	11/23/2004	Eigler et al.			
	BE3	6,832,909 B2	12/21/2004	Bazzo et al.			
	BF3	US 2003/0008034 A1	01/09/2003	Niewels			
	BG3	US 2003/0082263 A1	05/01/2003	Olaru			

EXAMINER

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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2107.1780002/TUM/RPG	APPLICATION NO. 10/822,855
	FIRST NAMED INVENTOR Babin <i>et al.</i>	
	FILING DATE April 13, 2004	ART UNIT 1722

	AA4	US 2003/0082264 A1	05/01/2003	Babin <i>et al.</i>			
	AB4	US 2003/0086997 A1	05/08/2003	Olaru			
	AC4	US 2003/0170340 A1	09/11/2003	Sicilia <i>et al.</i>			
	AD4	US 2003/0235638 A1	12/25/2003	Gellert			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	FA4	CA 2,082,700	05/13/1994	Canada			Yes No
	FB4	DE 3245571 A1	06-20-1984	Germany			Yes No
	FC4	DE 29602484	05-09-1996	Germany			X Yes No
	FD4	DE 19608676	01-30-1997	Germany			X Yes No
	FE4	DE 10008722 A1	08/30/2001	Germany			X Yes No
	FF4	DE 10037739 A1	02/21/2002	Germany			X Yes No
	FG4	EP 0590677 A1	04/06/1994	Europe			Yes No
	FH4	EP 0638407	02-15-1995	Europe			X Yes No
	FI4	EP 0743158 A1	11/20/1996	Europe			Yes No
	FJ4	EP 0743158 B1	08/04/1999	Europe			Yes No
	FK4	EP 0750975 A1	01-02-1997	Europe			Yes No
	FL4	EP 0835176 B1	04/15/1998	Europe			X Yes No
	FM4	EP 0873841	10-28-1998	Europe			Yes No
	FN4	EP 0920969 A1	06/09/1999	Europe			Yes No
	FO4	EP 0962296 A2	12-08-1999	Europe			X Yes No
	FP4	EP 1188537 A2	03-20-2002	Europe			Yes No
	FQ4	EP 1321274 A1	06/25/2003	Europe			Yes No
	FR4	FR 2537497	06-15-1984	France			X Yes No
	FS4	GB 1 540 698	02/14/1979	Great Britain			Yes No
	FT4	JP 05-177664	07-20-1993	Japan			X Yes No
	FU4	JP 05-261770	10-12-1993	Japan			X Yes No
	FV4	JP 05-309695	11-22-1993	Japan			X Yes No
	FW4	JP 06-143358	05-24-1994	Japan			X Yes No

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449  <b>INFORMATION DISCLOSURE STATEMENT</b>	ATTY. DOCKET NO. 2107.1780002/TUM/RPG	APPLICATION NO. 10/822,855
	FIRST NAMED INVENTOR Babin <i>et al.</i>	
	FILING DATE April 13, 2004	ART UNIT 1722

	FA5	JP 07-148786	06-13-1995	Japan			X	Yes No
	FB5	JP 08-90598	04-09-1996	Japan			X	Yes No
	FC5	JP 10-034708	02/10/1998	Japan			X	Yes No
	FD5	JP 10-264222	10-06-1998	Japan			X	Yes No
	FE5	JP 11-254488	09-21-1999	Japan			X	Yes No
	FF5	JP 2002-307492	10-23-2002	Japan			X	Yes No
	FG5	JP 2003-11173	01-15-2003	Japan			X	Yes No
	FH5	JP 2003-11174	01-15-2003	Japan			X	Yes No
	FI5	JP 2003-11176	01-15-2003	Japan			X	Yes No
	FJ5	WO 84/00922	03-15-1984	WIPO/PCT			X	Yes No
	FK5	WO 97/02129	01/23/1997	WIPO/PCT			X	Yes No
	FL5	WO 00/48814	08/24/2000	WIPO/PCT				Yes No
	FM5	WO 01/28750 A1	04/26/2001	WIPO/PCT				Yes No
	FN5	WO 01/78961	10-25-2001	WIPO/PCT				Yes No
	FO5	WO 02/40245 A1	05/23/2002	WIPO/PCT				Yes No
	FP5	WO 03/028973	04/10/2003	WIPO/PCT				Yes No
	FQ5	WO 03/028974	04/10/2003	WIPO/PCT				Yes No
	FR5	WO 03/004243	01-16-2003	WIPO/PCT				Yes No
	FS5	WO 03/086734	10/23/2003	WIPO/PCT				Yes No
	FT5	WO 03/070446	08-28-2003	WIPO/PCT				Yes No
	FU5	WO 2004/12923	02-12-2004	WIPO/PCT				Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

OA	<u>5</u>	Ewikon, Instruction Manual for Ewikon Hotrunner Systems.
OB	<u>5</u>	Husky Injection Molding Systems, S.A., 750 Series.

EXAMINER	DATE CONSIDERED
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

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	FIRST NAMED INVENTOR Babin <i>et al.</i>	
	FILING DATE April 13, 2004	ART UNIT 1722

	OA	<u>6</u>	J.D. Robinson, "Gating and Cooling Techniques for Polypropylene," <i>Plastics</i> , August, 1965, pp. 47-51.
	OB	<u>6</u>	H.P. Manner, "Nadelverschlußdusen für kurze Zykluszeit," <i>Kunststoffe</i> 85(2): 166-168(1995).
	OC	<u>6</u>	Ewikon, Hotrunner Systems for Large Parts, pp. 2-11, 05/2000.
	OD	<u>6</u>	Ewikon, Product Guide, "Internally Heated Hotrunner Systems," pp. 2-7, 10/2000.
	OE	<u>6</u>	Ewikon Product Catalog entitled "Außenbeheizte Heißkanaldüse, 230 V, für schnelle Farbwechsel," 3 pgs., dated October 2000.
	OF	<u>6</u>	Daniel Frenkler and Henry K. Zawistowski - RAPRA Technology Ltd., "Hot Runners in Injection Moulds," 2001.
	OG	<u>6</u>	Ewikon, Hotrunner Systems for the Packaging and Medical Industry, pp. 2-7, 06/2001.
	OH	<u>6</u>	Ewikon, HPS III-NV Valve Gate Systems, "All Advantages of the Valve Gate Technology in a Most Compact System," p. 209, 10/2001.
	OI	<u>6</u>	Ewikon, HPS III-VT Nozzles, 230 V Externally Heated, "For Multi-Cavity Applications and Close Cavity Spacing," pp. 2-7, 10/2001.

EXAMINER	DATE CONSIDERED
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FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2107.1780002/TUM/RPG	APPLICATION NO. 10/822,855
	FIRST NAMED INVENTOR Babin <i>et al.</i>	
	FILING DATE April 13, 2004	ART UNIT 1722

	OA	<u>7</u>	Redacted letter and attached figure addressed to Mold Masters Limited from the representative of Mr. Maurizio Bazzo dated December 21, 2001.
	OB	<u>7</u>	Ewikon, HPS III Single Tips, 230 V Externally Heated, "HPS III-SE High Performance Single Tips, 230 V With Tip Sealing Technology," pp. 2-9, 03/2002
	OC	<u>7</u>	Images and information from "Gunther Hot Runner Technology," taken from Gunther website August 2003.
	OD	<u>7</u>	PCT Search Report for PCT/CA03/01154 dated 12/03/2004

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